

Title (en)

IN VITRO METHOD OF CLINICAL DIAGNOSIS.

Title (de)

IN VITRO METHODE ZUR KLINISCHEN DIAGNOSE.

Title (fr)

METHODE IN VITRO POUR LE DIAGNOSTIC CLINIQUE.

Publication

**EP 1557671 B1 20101124 (EN)**

Application

**EP 03758834 A 20031023**

Priority

- JP 0313572 W 20031023
- JP 2002317568 A 20021031

Abstract (en)

[origin: US2006166269A1] The present invention relates to a method for readily determining the binding site on plasma protein and binding displacement effect of a drug having binding affinity to plasma protein, and application of the method to clinical diagnosis. That is to say, the present invention provides a method for determining the binding site with plasma protein of a first drug, comprising reacting the first drug for which the binding site with plasma protein is to be determined, with a second drug of which the binding site with plasma protein is known and plasma protein, and determining the change in the ratio of the first drug freed due to the binding of the plasma protein with the second drug.

IPC 8 full level

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**G01N 2500/20** (2013.01 - EP US)

Citation (examination)

- EPPS D E ET AL: "A General, Wide-Range Spectrofluorometric Method for Measuring the Site-Specific Affinities of Drugs toward Human Serum Albumin", ANALYTICAL BIOCHEMISTRY, ACADEMIC PRESS INC, NEW YORK LNKD- DOI:10.1006/ABIO.1995.1290, vol. 227, 1 January 1995 (1995-01-01), pages 342 - 350, XP002277888, ISSN: 0003-2697
- SUDLOW G ET AL: "THE CHARACTERIZATION OF TWO SPECIFIC DRUG BINDING SITES ON HUMAN SERUM ALBUMIN", MOLECULAR PHARMACOLOGY, AMERICAN SOCIETY FOR PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, US, vol. 11, no. 6, 31 January 1975 (1975-01-31), pages 824 - 832, XP008076587, ISSN: 0026-895X
- SUDLOW G ET AL: "FURTHER CHARACTERIZATION OF SPECIFIC DRUG BINDING SITES ON HUMAN SERUM ALBUMIN", MOLECULAR PHARMACOLOGY, AMERICAN SOCIETY FOR PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, US, vol. 12, no. 6, 1 January 1976 (1976-01-01), pages 1052 - 1061, XP008076594, ISSN: 0026-895X
- PARIKH H H ET AL: "A rapid spectrofluorimetric technique for determining drug-serum protein binding suitable for high-throughput screening", PHARMACEUTICAL RESEARCH, KLUWER ACADEMIC PUBLISHERS, NEW YORK, NY, US LNKD- DOI:10.1023/A:1007537520620, vol. 17, no. 5, 1 May 2000 (2000-05-01), pages 632 - 637, XP002277889, ISSN: 0724-8741

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